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	Asp	Asn	Gly	Leu		Ser	Tyr	Leu	Gly	Arg	Phe	Lys	Gly	Asp	Lys
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GIY	Leu	Leu	Pro		Lys	Ser	Thr	Ile	Val	Gln	Pro	Ala	Gly	Ser	Gln
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Tyr	Pne	Asn		Phe	Tyr	Phe	Asp		Ala	Leu	Lys	Lys	Asp	Ile	Tyr
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~ 1	530	_	_		_	535					540				
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545	G 1	D .			550	_				555					560
ıyr	GIU	Pro	val		Lys	Lys	Tyr	Gly		Lys	Arg	Ala	Asn		His
C	17- 7	6 -		565		_			570					575	
ser	vaı	Ser	тте	Ser	Ala	Asp	Phe	Gly	Asp	Tyr	Phe	Met	Pro	Phe	Ala

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Thr	Asn	Gly	Gly		Thr	Ser	Asn	Val		Gln	Leu	Gly	Lys	Arg	Ser
	_			805					810					815	
Ile	Lys	Gin	Thr	Glu	Thr	Leu	Ala	Arg	Gln	Pro	Leu	Ile	Phe	Asp	Phe
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•		835		_		_	840					845			
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•	850					855	_				860				
	АТА	Ala	Thr	GIn		Tyr	Tyr	Ser	Ser		Asp	Pro	Lys	Asp	
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MSP	GIU	GIU	Val		Cys	Asn	Ala	Asp		Thr	Leu	Cys	Asn		Lys
T1	C1	G1	Th ~	885	T	C	17. 1	• .	890	•	D 1		_	895	_
TAT	GIY	GIÅ	Thr	ser	ьys	ser	vai		Thr	Asn	Pne	Ala		GIY	Arg
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<211> 2766

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<213> Bacteria

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Ile	7													
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Thr	Gly	Thr	Asn	Ser	Thr	Lys	Gly	Asn	Ala	Met	Ala	Ala	Ile	Gly
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Pro	Ser	Ser		Lys	Gln	Gln	Ser	Ala	Gly	Asn	Leu	Phe	Lys	Leu
_	_							330					335	
Tyr	Asp		Val	Phe	Asn	Lys		Thr	Ala	Gln	Phe	Arg	Asp	Leu
шь	T		-1	_	_	_						350		
Inr		iie	GIY	Ser	Arg		Ile	Ile	Asn	Arg		Tyr	Gln	Phe
ጥኒም		Tou	C	T	2		_	 \	_	_		_		
	GIY	Leu	ser	Leu		Pro	Tyr	Thr	Asn		Asn	Leu	Thr	Ala
	Δαη	Ser	Gl.	7/ ~~~		T		5	.		_	_		
- 7 -	ASII	361	GIY		GIN	Lys	TYT	Pro		GIA	ser	Lys	Phe	Thr
Tro	Glv	T.e.11:	ī.e.ı		λερ	Dho	~ 1	Th		D ===	n			400
	Cly	11C Q		ыуѕ	ASP	Pne	GIU		Tyr	Asn	Asn	Ala		Ile
Asp	Leu	Asn		Thr	Δla	Thr	Dhe		T 011	Dro	7 ~~	C3		G3
				****	n.a	1111		Arg	Leu	PIO	Arg		inr	GIU
Gln	Thr		Leu	Glv	Phe	Aen		Dhe	uie	Aen	G1.		C1	T
				1					1113	ASII		TYL	Giy	цуѕ
Arg		Pro	Glu	Glu	Leu		Leu	Phe	Phe	Asp		Pro	Aen	Gla
450			-			1					y	0	ap	3111
Asn	Gly	Leu	Tyr	Ser		Leu	Glv	Arq	Phe		Glv	Asp	Lvs	Glv
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	Asp Thr Arg 210 Ser His Tyr Trp Asn 290 Ser Pro Tyr Thr Tyr 370 Tyr Trp Asp Gln Arg 450	Asp Val Thr Gly 195 Arg Lys 210 Ser Arg His Ile Tyr Phe Trp Glu 275 Asn Tyr 290 Ser Trp Pro Ser Tyr Asp Thr Lys 355 Tyr Gly 370 Tyr Asn Trp Gly 370 Tyr Asn Trp Gly 370 Tyr Asn Trp Gly 370 Tyr Asn	Asp Val 180 Thr Gly Thr 195 Arg Lys Trp 210 Ser Arg Arg His Ile Gly Tyr Phe Val 260 Trp Glu Arg 275 Asn Tyr Asn 290 Ser Trp Arg Pro Ser Ser Tyr Asp Gly 340 Thr Lys Ile 355 Tyr Gly Leu 370 Tyr Asn Ser Asp Leu Asn 420 Gln Thr Thr 435 Arg Phe Pro 450	Asp Val Clot Asp Val Clot Thr Gly Thr Asn 195 Trp Leu 210 Trp Leu 210 Trp Asn 245 His Ile Gly Asn 245 Tyr Asn Asn 275 Tr Asn Asn 290 Trp Arg Glu Pro Ser Leu 325 Tyr Asp Gly Val 340 Thr Asn Asn Tyr Asp Gly Val Tyr Asp Ile Gly Tyr Gly Leu Ser Tyr Asn Ser Gly Tyr Asn Ser Gly Tyr Asn Asn Asn Asp Leu Asn Asn Asp Leu Asn Asn Arg Phe Pro Glu	Asp Val 165 Asp Val Gln Gly Thr Gly Thr Asn Ser 195 Tr Leu Glu Arg Lys Tr Leu Glu Ser Arg Arg Val 230 His Ile Gly Asn Phe 245 Tr Arg Asn Phe Tyr Phe Val Asn Phe 245 Tr Arg Asn Phe 245 Tr Arg Asn Asn Tyr Arg Arg Asn Asn Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg <td>Asp Val Val Glo Gly Asn 180 </td> <td>Asp Val Val Gly Gly Asn Asn Asp Val Gly Gly Asn Asn Thr Gly Thr Asn Ser Thr Lys Arg Lys Trp Leu Glu Ser Gly Arg Arg Arg Ser Val Ala Gln Arg Arg Arg Cu Ala Ala Gln Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Glu Arg Arg Arg Arg Glu Glu Arg Ala Arg Ar</td> <td>Asp Asp<br< td=""><td>165170AspValGluGluAsnAsnThrTyr180180180180180185180ThGlyThAsnSerThLysGlyAsn1951LeuGluSerGlyAlaSer21011Leu2301AsnTyr23012301AsnTyr250ThPheGlyAsnPheGlyAlaGluTyr2451226512651265TyPheValGlnGlyAlaLeuLys2601AsnGluGlyAlaLeuLys2701AsnAsnGluAlaGluLys2801AsnGluGluAlaLeuLys2811AsnAsnGluAlaLeuAla2821AsnAsnLeuAlaAlaAla2901AsnAsnLeuAlaAlaAla3101AsnAsnLeuAlaAlaAla3401AsnAsnLysTyrThr341AsnAsnAsnAnnAnnAnnAnn3421AsnAnnAnnAnnAnnAnnAnn3431Ann<td< td=""><td>16517017</td><td>Heat with the property of the proof of the</td><td>Asp Val Val Glu Glu Asp Asp Thr Thr Gly Gly Leu Leu Asp Val Gly Asp Asp Thr Leu Gly Asp Asp Asp Gly Asp Ala Ala Arg Lys Try Leu Gly Ser Gly Ala Asp Val Gly Ang Ala Ala Arg Lys Try Leu Glu Ser Gly Ala Asp Val Arg Arg Arg Asp Ala Ala Asp Asp Arg Arg</td><td>Asp Val Val Gln Gly Asp Asp Tyr Gly Leu 190 Tyr Asp Asp</td></td<><td>Ase Val Gln Gly Ase Ase Thr Tyr Gly Leu Leu Lys Lys Lys Gly Ase Ala Ala Jips Lys Lys Ase Ase Ala Ala</td></td></br<></td>	Asp Val Val Glo Gly Asn 180	Asp Val Val Gly Gly Asn Asn Asp Val Gly Gly Asn Asn Thr Gly Thr Asn Ser Thr Lys Arg Lys Trp Leu Glu Ser Gly Arg Arg Arg Ser Val Ala Gln Arg Arg Arg Cu Ala Ala Gln Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Gly Ala Arg Arg Arg Glu Glu Arg Arg Arg Arg Glu Glu Arg Ala Arg Ar	Asp <br< 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Ala</td></td></br<>	165170AspValGluGluAsnAsnThrTyr180180180180180185180ThGlyThAsnSerThLysGlyAsn1951LeuGluSerGlyAlaSer21011Leu2301AsnTyr23012301AsnTyr250ThPheGlyAsnPheGlyAlaGluTyr2451226512651265TyPheValGlnGlyAlaLeuLys2601AsnGluGlyAlaLeuLys2701AsnAsnGluAlaGluLys2801AsnGluGluAlaLeuLys2811AsnAsnGluAlaLeuAla2821AsnAsnLeuAlaAlaAla2901AsnAsnLeuAlaAlaAla3101AsnAsnLeuAlaAlaAla3401AsnAsnLysTyrThr341AsnAsnAsnAnnAnnAnnAnn3421AsnAnnAnnAnnAnnAnnAnn3431Ann <td< td=""><td>16517017</td><td>Heat with the property of the proof of the</td><td>Asp Val Val Glu Glu Asp Asp Thr Thr Gly Gly Leu Leu Asp Val Gly Asp Asp Thr Leu Gly Asp Asp Asp Gly Asp Ala Ala Arg Lys Try Leu Gly Ser Gly Ala Asp Val Gly Ang Ala Ala Arg Lys Try Leu Glu Ser Gly Ala Asp Val Arg Arg Arg Asp Ala Ala Asp Asp Arg Arg</td><td>Asp Val Val Gln Gly Asp Asp Tyr Gly Leu 190 Tyr Asp Asp</td></td<> <td>Ase Val Gln Gly Ase Ase Thr Tyr Gly Leu Leu Lys Lys Lys Gly Ase Ala Ala Jips Lys Lys Ase Ase Ala Ala</td>	16517017	Heat with the property of the proof of the	Asp Val Val Glu Glu Asp Asp Thr Thr Gly Gly Leu Leu Asp Val Gly Asp Asp Thr Leu Gly Asp Asp Asp Gly Asp Ala Ala Arg Lys Try Leu Gly Ser Gly Ala Asp Val Gly Ang Ala Ala Arg Lys Try Leu Glu Ser Gly Ala Asp Val Arg Arg Arg Asp Ala Ala Asp Asp Arg	Asp Val Val Gln Gly Asp Asp Tyr Gly Leu 190 Tyr Asp Asp	Ase Val Gln Gly Ase Ase Thr Tyr Gly Leu Leu Lys Lys Lys Gly Ase Ala Ala Jips Lys Lys Ase Ase Ala Ala

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Phe	Asn	Thr	Phe	Tyr	Phe	Asp	Ala	Ala	Leu	Lys	Lys	Asp	Ile	Tyr	Arg
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	Thr	Trp	Gln	Phe		Phe	Asn	Thr	Tyr	Lys	Lys	Ģly	Leu	Leu	Lys
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705		_			710					715					720
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785	a.	a 3	_		790					795					800
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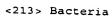
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SEQUENCE INFORMATION BASB024 Polynucleotide and Polypeptide Sequences

SEQ ID NO:1

Neisseria meningitidis BASB024 polynucleotide sequence from strain ATCC 13090

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SEQ ID NO:2

Neisseria meningitidis BASB024 polypeptide sequence deduced from the polynucleotide of SeQ ID NO:1

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SEQ ID NO:3 Neisseria meningitidis BASB024 polynucleotide sequence from strain ATCC 13090

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SEQ ID NO:4 Neisseria meningitidis BASB024 polypeptide sequence deduced from the polynucleotide of SeQ ID NO:3

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SEQ ID NO:5

Neisseria meningitidis BASB024 polynucleotide sequence from strain H44/76

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SEQ ID NO:6

Neisseria meningitidis BASB024 polypeptide sequence deduced fr m the polynucleotide of SeQ ID NO:5

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SEQ ID NO:7

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SEQ ID NO:8

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Neisseria meningitidis polynucleotide sequence up-stream the BASB024 gene sequence, in strain ATCC 13090

2160

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```